This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   Cancelled

2.   (Currently Amended) The method according to claim [[1]]9, wherein the step of providing a profile includes providing information pertaining to the presence of techtites.

3.   (Currently Amended) The method according to claim [[1]]9, wherein the step of providing a profile includes providing information pertaining to the presence of filming, fibers, coking, techtites, ferrous and non-ferrous particles, oxides, and tempered metallic particles.

4.   (Currently Amended) The method according to claim [[1]]9, wherein the step of providing a profile includes providing information pertaining to the presence of non-particulate components, including the presence of non-volatile insulating liquid degradation products.

5.   (Original)   The method according to claim 4, wherein the step of providing a profile includes providing information pertaining to the presence of hydrocarbons.

6.   (Previously Presented)   A method for a reliability assessment, failure prediction and operating condition determination of electrical equipment comprising:
    providing a profile of wear products and breakdown products; and
    assessing reliability, and predicting failure and operating condition of the electrical equipment based on evaluation of the profile of wear products and breakdown products,
    wherein the step of providing a profile includes providing information pertaining to the presence of non-particulate components, including the presence of non-volatile insulating liquid degradation products, and providing information pertaining to the presence of hydrocarbons, water, nitrates, alkanes, hydroxyls, oxides, sulfates, coking and viscosity.

7.   (Previously Presented)   A method for a reliability assessment, failure prediction and operating condition determination of electrical equipment comprising:

    providing a profile of wear products and breakdown products; and

    assessing reliability, and predicting failure and operating condition of the electrical equipment based on evaluation of the profile of wear products and breakdown products,

    wherein the step of providing a profile includes providing information pertaining to the particle count, particle count distribution, particle count concentration, particle count composition, particle count shape, coking, oxidation, nitration, sulfate, alkanes, moisture, particle type composition, particle size and particle shape, and non-particulate components, including the presence of non-volatile insulating liquid degradation products.

8.   (Currently Amended) The method according to claim [[1]]9, wherein the step of assessing reliability, and predicting failure and operating condition includes comparing the profile to a standardized profile.

9.   (Currently Amended) The method according to claim 1, A method for a reliability assessment, failure prediction and operating condition determination of electrical equipment comprising:

    providing a profile of wear products and breakdown products contained within the electrical equipment; and

    assessing reliability, and predicting failure and operating condition of the electrical equipment based on evaluation of the profile of wear products and breakdown products,

    wherein the electrical equipment is selected from the group consisting of transformers, load tap changes, tap changers, circuit breakers, off-load tap changes, on-load tap changers, switches, x-ray machines and electrical discharge machines.

10.   (Cancelled)

11.   (Previously Presented)   A power transmission electrical equipment operating condition determination method comprising:

providing a profile of wear products and breakdown products within the power transmission electrical equipment; and

assessing reliability, and predicting failure and operating condition of the power transmission electrical equipment based on evaluation of the profile of wear products and breakdown products.

12.   (Original)   The method according to claim 11, wherein the step of providing a profile includes providing information pertaining to the presence of techtites.

13.   (Original)   The method according to claim 11, wherein the step of providing a profile includes providing information pertaining to the presence of filming, fibers, coking, techtites, ferrous and non-ferrous particles, oxides, and tempered metallic particles.

14.   (Original)   The method according to claim 11, wherein the step of providing a profile includes providing information pertaining to the presence of non-particulate components, including the presence of non-volatile insulating liquid degradation products.

15.   (Original)   The method according to claim 14, wherein the step of providing a profile includes providing information pertaining to the presence of hydrocarbons.

16.   (Previously Presented)   An electrical equipment operating condition determination method comprising:

providing a profile of wear products and breakdown products; and

assessing reliability, and predicting failure and operating condition of the electrical equipment based on evaluation of the profile of wear products and breakdown products,

wherein the step of providing a profile includes providing information pertaining to the presence of non-particulate components, including the presence of non-volatile insulating liquid degradation products, and providing information pertaining to the presence of hydrocarbons, water, nitrates, alkanes, hydroxyls, oxides, sulfates, coking and viscosity.

17.   (Previously Presented)   An electrical equipment operating condition determination method comprising:

    providing a profile of wear products and breakdown products; and

    assessing reliability, and predicting failure and operating condition of the electrical equipment based on evaluation of the profile of wear products and breakdown products,

    wherein the step of providing a profile includes providing information pertaining to the particle count, particle count distribution, particle count concentration, particle count composition, particle count shape, coking, oxidation, nitration, sulfate, alkanes, moisture, particle type composition, particle size and particle shape, and providing information pertaining to the presence of non-particulate components, including the presence of non-volatile insulating liquid degradation products.

18.   (Original)   The method according to claim 11, wherein the step of assessing reliability, and predicting failure and operating condition includes comparing the profile to a standardized profile.

19.   (Original)   The method according to claim 11, further comprising:

    obtaining a sample of insulating liquid from the electrical equipment;

    analyzing the insulating liquid for the presence of wear products and breakdown products to determine the profile of wear products and breakdown products.